



FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. TAN-2-1401.06.US	SERIAL NO. 10/776,424
	APPLICANT Gorsuch et al.	
	FILING DATE February 11, 2004	GROUP 2617

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	4,107,469	08/1978	Jenkins				
	4,577,316	03/1986	Schiff				
	4,625,308	11/1986	Kim et al.				
	4,675,863	06/1987	Paneth et al.				
	4,817,089	03/1989	Paneth et al.				
	4,841,526	06/1989	Wilson et al.				
	4,862,453	08/1989	West et al.				
	4,866,709	09/1989	West et al.				
	4,912,705	03/1990	Paneth et al.				
	4,949,395	08/1990	Rydbeck				
	5,022,024	06/1991	Paneth et al.				
	5,027,348	06/1991	Curry				
	5,027,400	06/1991	Baji et al.				
	5,114,375	05/1992	Wellhausen et al.				
	5,115,309	05/1992	Hang				
	5,226,044	07/1993	Gupta et al.				
	5,268,900	12/1993	Hluchyj et al.				
	5,282,222	01/1994	Fattouche et al.				
	5,325,419	06/1994	Connolly et al.				
	5,355,374	11/1994	Hester et al.				
	5,373,502	12/1994	Turban				
	5,375,124	12/1994	D'Ambrogio, et al.				
	5,388,102	02/1995	Griffith et al.				
	5,394,473	02/1995	Davidson				
	5,412,429	05/1995	Glover				

EXAMINER 	DATE CONSIDERED 1/20/04
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	5,442,625	08/1995	Gitlin et al.			
	5,463,629	10/1995	Ko			
	5,471,463	11/1995	Hulbert			
	5,585,850	12/1996	Schwaller			
	5,592,470	01/1997	Rudrapatna et al.			
	5,592,471	01/1997	Briskman			
*	5,594,782	01/1997	Zicker et al.			
*	5,603,081	02/1997	Raith et al.			
*	5,606,580	02/1997	Mourot et al.			
	5,617,423	04/1997	Li et al.			
	5,642,348	06/1997	Barzegar et al.			
	5,655,001	08/1997	Cline et al.			
	5,657,358	08/1997	Panech et al.			
	5,663,958	09/1997	Ward			
	5,663,990	09/1997	Bolgiano et al.			
	5,673,259	09/1997	Quick, Jr.			
	5,687,194	11/1997	Paneth et al.			
	5,697,059	12/1997	Carney			
	5,699,364	12/1997	Sato et al.			
	5,734,646	03/1998	I et al.			
	5,781,542	07/1998	Tanaka et al.			
	5,784,406	07/1998	DeJaco et al.			
	5,790,551	08/1998	Chan			
	5,793,744	08/1998	Kanerva et al.			
	5,802,465	09/1998	Hamalainen et al.			
	5,825,807	10/1998	Kumar			

<p>EXAMINER</p>	<p>DATE CONSIDERED 1/21/09</p>
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




















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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
✓	5,828,659	10/1998	Teder et al.			
	5,828,662	10/1998	Jalali et al.			
	5,844,894	12/1998	Dent			
	5,845,211	12/1998	Roach			
	5,854,786	12/1998	Henderson et al.			
	5,856,971	01/1999	Gitlin et al.			
	5,859,840	01/1999	Tiedemann, Jr. et al.			
	5,859,879	01/1999	Bolgiano et al.			
	5,872,786	02/1999	Shobatake			
	5,881,060	03/1999	Morrow et al.			
	5,896,376	04/1999	Alperovich et al.			
	5,910,945	06/1999	Garrison et al.			
	5,914,950	06/1999	Tiedemann, Jr. et al.			
	5,923,650	07/1999	Chen et al.			
	5,930,230	07/1999	Odenwalder et al.			
	5,950,131	09/1999	Vilmur			
	5,956,332	09/1999	Rasanen et al.			
	5,966,374	10/1999	Rasanen			
	5,991,279	11/1999	Haugli et al.			
	6,001,800	12/1999	Mehta et al.			
	6,002,690	12/1999	Takayama et al.			
	6,009,106	12/1999	Rustad et al.			
	6,005,855	12/1999	Zehavi et al.			
	6,011,800	01/2000	Nadgauda et al.			
	6,028,853	02/2000	Haartsen			
	6,028,868	02/2000	Yeung et al.			

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,052,385	04/2000	Kanerva et al.			
	6,064,678	05/2000	Sindhushayana et al.			
	6,069,883	05/2000	Ejzak et al.			
	6,078,572	06/2000	Tanno et al.			
	6,081,536	06/2000	Gorsuch et al.			
	6,088,335	07/2000	I et al.			
	6,097,733	8/2000	Basu et al.			
	6,111,863	08/2000	Rostoker et al.			
	6,112,092	08/2000	Benveniste			
	6,134,233	10/2000	Kay			
	6,151,332	11/2000	Gorsuch et al.			
	6,157,619	12/2000	Ozluturk et al.			
	6,161,013	12/2000	Anderson et al.			
	6,196,362	02/2001	Darcie et al.			
	6,198,723	03/2001	Parruck et al.			
	6,208,871	03/2001	Hall et al.			
	6,215,798	04/2001	Carneheim et al.			
	6,222,828	04/2001	Ohlson et al.			
	6,236,647	05/2001	Amalfitano			
	6,243,372	06/2001	Petch et al.			
	6,259,683	07/2001	Sekine et al.			
	6,262,980	07/2001	Leung et al.			
	6,269,088	07/2001	Masui et al.			
	6,272,168	08/2001	Lomp et al.			
	6,285,665	09/2001	Chuah			
	6,307,840	10/2001	Wheatley III et al.			

<p>EXAMINER</p>	<p>DATE CONSIDERED</p> <p>1/24/04</p>
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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	6,310,859	10/2001	Morita et al.			
	6,366,570	04/2002	Bhagalia			
	6,370,117	04/2002	Koraitim et al.			
	6,373,830	04/2002	Ozluturk			
	6,373,834	04/2002	Lundh et al.			
	6,377,548	04/2002	Chuah			
	6,377,809	04/2002	Rezaiifar et al.			
	6,388,999	05/2002	Gorsuch et al.			
	6,389,000	05/2002	Jou			
	6,396,804	05/2002	Odenwalder			
	6,418,148	07/2002	Kumar et al.			
	6,456,608	09/2002	Lomp			
	6,469,991	10/2002	Chuah			
	6,473,623	10/2002	Benveniste			
	6,504,830	01/2003	Östberg et al.			
	6,519,651	02/2003	Dillon			
	6,526,039	02/2003	Dahlman et al.			
	6,526,064	02/2003	Bousquet			
	6,526,281	02/2003	Gorsuch et al.			
	6,532,365	03/2003	Anderson et al.			
	6,542,481	04/2003	Foore et al.			
	6,545,986	04/2003	Stellakis			
	6,567,416	05/2003	Chuah			
	6,570,865	05/2003	Masui et al.			
	6,571,296	05/2003	Dillon			
	6,574,211	06/2003	Padovani et al.			

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ST		6,597,913	07/2003	Natarajan			
	*	6,845,104	01/2005	Johnson et al.			
	*	6,973,140	12/2005	Hoffman et al.			
		2004/0160910	08/2004	Gorsuch et al.			
		2004/0180696	09/2004	Foore et al.			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
ST	*	4426183	10/1995	DE ¹				
		443061	08/1991	EP			X	
		526106	02/1993	EP				
		635949	01/1995	EP ²				
		682423	11/1995	EP				
		682426	11/1995	EP				
		719062	06/1996	EP				
		2761557	01/1998	FR ³				
	*	2000-236343	08/2000	JP			X**	
	*	2000-286851	10/2000	JP			X**	
	*	2002-51044	04/2002	JP ⁴				
		95/08900	03/1995	WO				
		96/08934	03/1996	WO				
		96/27994	12/1996	WO				

1 Corresponds to WO 96/03815**

2 Corresponds to US 5,606,580

3 Corresponds to US 6,526,039

4 Corresponds to WO 98/59523

**English Abstract Only

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
[Signature]		96/37081	11/1996	WO				
		97/23073	06/1997	WO				
		97/32412	04/1997	WO				
		97/46044	12/1997	WO				
	*	98/59447	12/1998	WO				
	*	98/59523	12/1998	WO				
	*	99/44341	09/1999	WO				
	*	99/63713	12/1999	WO				

OTHER DOCUMENTS

EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
[Signature]	Chih-Lin I et al., Multi-Code CDMA Wireless Personal Communications Networks, June 18, 1005.
[Signature]	Chih-Lin I et al., IS-95 Enhancements for Multimedia Services, Bell Labs Technical Journal, Pages 60-87, Autumn 1996.
[Signature]	Chih-Lin I et al., Performance of Multi-Code CDMA Wireless Personal Communications Networks, July 25, 1995.
[Signature]	Liu et al., Channel Access and Interference Issues in Multi-Code DS-CDMA Wireless Packet (ATM) Networks, Wireless Networks 2, Pages 173-196, 1996.
[Signature]	Chih-Lin I et al., Load and Interference Based Demand Assignment (LIDA) for Integrated Services in CDMA Wireless Systems, November 18, 1996, Pages 235-241.
[Signature]	Budka et al., Cellular Digital Packet Data Networks, Bell Labs Technical Journal, Summer 1997, Pages 164-181.
[Signature]	Cellular Digital Packet Data, System Specification, Release 1.1, January 19, 1995.

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EXAMINER INITIAL	DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
	Data Standard, Packet Data Section, PN-3676.5 (to be published as TIA/EIA/IS-DATA.5), December 8, 1996, Version 02 (Content Revision 03).
	Data Service Options for Wideband Spread Spectrum Systems: Introduction, PN-3676. 1 (to be published as TIA/EIA/IS-707.1), March 20, 1997 (Content Revision 1).
	Packet Data Service Option Standard for Wideband Spread Spectrum Systems, TIA/EIA Interim Standard, TIA/EIA/IS-657, July 1996.
	Mobile Station-Base Station Compatibility Standard for Dual-Mode Wideband Spread Spectrum Cellular System, TIA Interim Standard, TIA/EIA/IS-95-A (Addendum to TIA/EIA/IS-95), May 1995.
	Mobile Station-Base Station Compatibility Standard for Wideband Spread Spectrum Cellular Systems, TIA/EIA Standard, TIA/EIA-95-B (Upgrade and Revision of TIA/EIA-95-A), March 1999.
	Network Wireless Systems Offer Business Unit (NWS OBU), Feature Definition Document for Code Division Multiple Access (CDMA) Packet Mode Data Services, FDD-1444, November 26, 1996.
	Draft Text for "95C" Physical Layer (Revision 4), Part 2, Document #531-981-20814-95C, part 2 on 3GPP2 website (http://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%202.pdf , 1998).
	Draft Text for "95C" Physical Layer (Revision 4), Part 1, Document #531-981-20814-95C, Part 1 on 3GPP2 website (http://ftp.3gpp2.org/tsgc/working/1998/1298_Maui/WG3-TG1/531-98120814-95c,%20part%201.pdf).
	Reed et al., Iterative Multiuser Detection for CDMA with FEC: Near-Single-User Performance, IEEE Transactions on Communications, Vol. 46, No. 12, December 1998, Pages 1693-1699.
	Hindelang et al., Using Powerful "Turbo" Codes for 14.4 Kbit/s Data Service in GSM or PCS Systems, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1997, Vol. II, Pages 649-653.
	Kaiser et al., Multi-Carrier CDMA with Iterative Decoding and Soft-Interference Cancellation, Proceedings of Globecom 1997, Vol. 1, Pages 523-529.
	Wang et al., The Performance of Turbo-Codes in Asynchronous DS-CDMA, IEEE Global Communications Conference, Phoenix, Arizona, USA, November 3-8, 1997, Vol. III, Pages 1548-1551.

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EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
[initial]		Hall et al., Design and Analysis of Turbo Codes on Rayleigh Fading Channels, IEEE Journal on Selected Areas in Communications, Vol. 16, No. 2, February 1998, Pages 160-174.
[initial]		High Data Rate (HDR) Solution, Qualcomm, December 1998.
[initial]		Azad et al., Multirate Spread Spectrum Direct Sequence CDMA Techniques, 1994, The Institute of Electrical Engineers.
[initial]		Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, Revision 0.1, May 5, 1997.
[initial]		Knisely, Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, January 16, 1997.
[initial]		Kumar et al, An Access Scheme for High Speed Packet Data Service on IS-95 based CDMA, February 11, 1997.
[initial]		Ejzak et al., Lucent Technologies Air Interface Proposal for CDMA High Speed Data Service, April 14, 1997.
[initial]		Lucent Technologies Presentation First Slide Titled, Summary of Multi-Channel Signaling Protocol, April 6, 1997.
[initial]		Lucent Technologies Presentation First Slide Titled, Why Support Symmetric HSD (Phase 1C), February 21, 1997.
[initial]		Krzymien et al., Rapid Acquisition Algorithms for Synchronization of Bursty Transmissions in CDMA Microcellular and Personal Wireless Systems, IEEE Journal on Selected Areas in Communications, Vol. 14, No. 3, April 1996, Pages 570-579.
[initial]		Chih-Lin I et al., Variable Spreading Gain CDMA with Adaptive Control for True Packet Switching Wireless Network, 1995, Pages 725-730.
[initial]		Skinner et al., Performance of Reverse-Link Packet Transmission in Mobile Cellular CDMA Networks, IEEE, 2001, Pages 1019-1023.

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EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
✓		Lau et al., A Channel-State-Dependent Bandwidth Allocation scheme for Integrated Isochronous and Bursty Media Data in a Cellular Mobile Information System, IEEE, 2000, Pages 524-528.
		Elhakeem, Congestion Control in Signalling Free Hybrid ATM/CDMA Satellite Network, IEEE, 1995, Pages 783-787.
		Chung, Packet Synchronization and Identification for Incremental Redundancy Transmission in FH-CDMA Systems, 1992, IEEE, Pages 292-295.
		High Data Rate (HDR), cdmaOne optimized for high speed, high capacity data, Wireless Infrastructure, Qualcomm, September 1998.
		Viterbi, The Path to Next Generation Services with CDMA, Qualcomm Incorporated, 1998 CDMA Americas Congress, Los Angeles, California, November 19, 1998.
		Melanchuk et al. <i>CDPD and Emerging Digital Cellular Systems</i> , Digest of Papers of COMPCN, Computer Society Conference 1996, Santa Clara, CA, no. CONF. 41, February 25, 1996, pp. 2-8, XP000628458.
		Bell Labs Technical Journal, Lucent Technologies, Volume 2, Number 3, Summer 1997.
		Puleston, PPP Protocol Spoofing Control Protocol, Global Village Communication (UK) Ltd., February 1996.
		Simpson, W. (Editor). "RFC 1661 – The Point-to-Point Protocol (PPP)." Network Working Group, July 1994, pgs. 1-35. http://www.faqs.org/rfcs/rfc1661.html
		Simpson, W. (Editor). "RFC 1662 – PPP in HDLC-Like Framing." Network Working Group, July 1994, pgs. 1-17. http://www.faqs.org/rfcs/rfc1662.html
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EXAMINER 	DATE CONSIDERED 1/1/99
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)	ATTY. DOCKET NO. TAN-2-1401.06.US	SERIAL NO. 10/776,424
	APPLICANT Gorsuch et al.	
	FILING DATE February 11, 2004	GROUP 2617

EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
[Handwritten mark]		MSC-BS Interface for Public 800 MHz. TIA/EIA/IS-634. TIA/EIA Interim Standard, December 1995.
[Handwritten mark]		MSC-BS Interface (A-Interface) for Public 800 MHz. TIA/EIA/IS-634-A. TIA/EIA Interim Standard (Revision of TIA/EIA/IS-634) July 1998.
[Handwritten mark]		Honkasalo, Harri. High Speed Data Air Interface. 1996.
[Handwritten mark]		Data Services Option Standard for Wideband Spread Spectrum Digital Cellular System. TIA/EIA/IS-99. TIA/EIA Interim Standard. July 1995.
[Handwritten mark]		Knisely, Douglas, N. Telecommunications Industry Association Subcommittee TR-45.5 - Wideband Spread Spectrum Digital Technologies Standards. Banff, Alberta. February 24, 1997 (TR45.5/97.02.24)21.
[Handwritten mark]		Ott, David TR45.5, CDMA WBSS Technical Standards Meeting Summary. February 24-28, 1997 Banff, Alberta.
[Handwritten mark]		Knisely, Douglas, N. Telecommunications Industry Association Subcommittee TR-45.5 - Wideband Spread Spectrum Digital Technologies Standards, Working Group III - Physical Layer. Banff, Alberta. February 24, 1997 (TR45.5/97.02.24)22.
[Handwritten mark]		Ejzak, et al. Proposal for High Speed Packet Data Service, Version 0.1. Lucent Technologies, January 16, 1997.
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[Handwritten mark]		Data Services Options Standard for Wideband Spread Spectrum Systems: Packet Data Services. PN-3676.5 (to be published as TIA/EIA/IS-707.5) Ballot Version, May 30, 1997.
[Handwritten mark]		Telecommunications Industry Association Meeting Summary. Task Group I, Working Group III, Subcommittee TR45.5. February 24-27, 1997. Banff, Alberta.
[Handwritten mark]		<u>WWW.CDG.ORG/NEWS/PRESS/1997.ASP. CDA Press Release Archive, 1997.</u>

EXAMINER [Handwritten signature]	DATE CONSIDERED [Handwritten date]
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EXAMINER INITIAL		DESCRIPTION (Including Author, Title, Date, Pertinent Pages, Etc.)
[Signature]		<i>Physical Layer Standard for cdma2000 Spread Spectrum Systems, Release C. TIA/EIA Interim Standard. TIA/EIA/IS-2000.2C. May, 2002.</i>
[Signature]		<i>Data Service Options for Wideband Spread Spectrum Systems. TIA/EIA Interim Standard. TIA/EIA/IS-707-A. April 1999.</i>
[Signature]		<i>Upper Layer (Layer 3) Signaling Standard for cdma2000 Spread Spectrum Systems, Release C. TIA/EIA Interim Standard. TIA/EIA/IS-2000.5-C. May, 2002.</i>
[Signature]		<i>Introduction to cdma2000 Spread Spectrum Systems, Release C. TIA/EIA Interim Standard. TIA/EIA/IS-2000.1-C. May, 2002.</i>
[Signature]		<i>Motorola, Version 1.0. Motorola High Speed Data Air Interface Proposal Comparisons and Recommendations. January 27, 1997.</i>
[Signature]		<i>Telecommunications Industry Association Meeting Summary. Task Group I, Working Group III, Subcommittee TR45.5. January 6-8, 1997. Newport Beach, California.</i>
[Signature]		<i>Shacham, et al., "A Selective-Repeat-ARQ Protocol for Parallel Channels and Its Resequencing Analysis," IEEE Transactions On Communications, XP000297814, 40 (4): 773-782 (Apr. 1997).</i>

EXAMINER [Signature]	DATE CONSIDERED 1/10/01
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